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1600

TECH CENTER 1600/2900

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/426,776A

TIME: 14:26:20

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                     Output Set: N:\CRF3\06042002\I426776A.raw
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      3 <110> APPLICANT: DING, Jeak Ling
      4
              TAN, Nguan Soon
      5
              HO, Bow
              LAM, Toong Jin
      8 <120> TITLE OF INVENTION: ISOLATED NUCLEIC ACIDS ENCODING A SECRETORY SIGNAL FOR
EXPRESSION AND
              SECRETION OF HETEROLOGOUS RECOMBINANT PROTEINS
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     9
     11 <130> FILE REFERENCE: 1781-0178P
     13 <140> CURRENT APPLICATION NUMBER: US 09/426,776A
                                                                   JUN 1 3 2002
     14 <141> CURRENT FILING DATE: 1999-10-26
     16 <160> NUMBER OF SEQ ID NOS: 22
     18 <170> SOFTWARE: PatentIn version 3.0
                                                               TECH CENTER 1600/2900
     20 <210> SEQ ID NO: 1
     21 <211> LENGTH: 29
     22 <212> TYPE: DNA
C--> 23 <213> ORGANISM: Artificial
     25 <220> FEATURE:
     26 <223> OTHER INFORMATION: Chloramphenicol acetyltransferase (CAT) gene forward primer
derived
     27
              from bacteria
     29 <400> SEQUENCE: 1
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     30 qaaqatctqc tqqaqaaaaa aatcactqq
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derived

40 from bacteria

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48 <212> TYPE: DNA

C--> 49 <213> ORGANISM: Artificial

51 <220> FEATURE:

52 <223> OTHER INFORMATION: OaVtgExon2 reverse primer derived from Oreochromis aureus

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53 gene exon 2

55 <400> SEQUENCE: 3

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Input Set : A:\EP.txt

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65 <223> OTHER INFORMATION: EGFP reverse primer derived from Aequoria victoria green fluorescent 66 protein 68 <400> SEQUENCE: 4 19 69 ccctcgccgg acacgctga 72 <210> SEQ ID NO: 5 73 <211> LENGTH: 29 74 <212> TYPE: DNA C--> 75 <213> ORGANISM: Artificial 77 <220> FEATURE: 78 <223> OTHER INFORMATION: B-lactamase forward primer derived from bacteria 80 <400> SEQUENCE: 5 29 81 ccgggatcca gaaacgctgg tgaaagtaa 84 <210> SEQ ID NO: 6 85 <211> LENGTH: 29 86 <212> TYPE: DNA C--> 87 <213> ORGANISM: Artificial 89 <220> FEATURE: 90 <223> OTHER INFORMATION: B-lactamase reverse primer derived from bacteria 92 <400> SEQUENCE: 6 93 geggeegtta ceaatgetta ateagtgag 29 96 <210> SEQ ID NO: 7 97 <211> LENGTH: 29 98 <212> TYPE: DNA C--> 99 <213> ORGANISM: Artificial 101 <220> FEATURE: 102 <223> OTHER INFORMATION: Forward primer from BspSS 104 <400> SEQUENCE: 7 105 gggtcatgag ggtgcttgta ctagctctt 108 <210> SEQ ID NO: 8 109 <211> LENGTH: 30 110 <212> TYPE: DNA C--> 111 <213> ORGANISM: Artificial 113 <220> FEATURE: 114 <223> OTHER INFORMATION: BamGal forward primer with BamHI restriction site and some betagalactosidase sequence derived from bacteria 117 <400> SEQUENCE: 8 118 ccatggatcc cgtgatttcg ttgccggtct 30 121 <210> SEQ ID NO: 9 122 <211> LENGTH: 26 123 <212> TYPE: DNA C--> 124 <213> ORGANISM: Artificial 126 <220> FEATURE: 127 <223> OTHER INFORMATION: EagGal reverse primer with EagI restriction site 129 <400> SEQUENCE: 9 130 gcgacggccg ggcagacatg gcctgc 26 133 <210> SEQ ID NO: 10 134 <211> LENGTH: 21

135 <212> TYPE: PRT

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of bacterial
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     215 <400> SEQUENCE: 14
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                                                                                 60
     217 ttgtactage tettgetgtg getetegeag tgggggaeca gteeaacttg ggggatetge
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     218 tggagaaaaa aatcactgga tataccaccg tt
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     249 Thr Val
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Output Set: N:\CRF3\06042002\I426776A.raw 272 <220> FEATURE: 273 <223> OTHER INFORMATION: Part of the nucleotide sequence adjoining Vtgss (derived from Oreochromis aureus) and CAT (derived from bacteria) in the vector psp-VtgCAT 274 276 <400> SEQUENCE: 18 277 ggcggggcgt aatttttta aggcacggcc gatgcgacgg tatcgatatt gttacaacac 60 66 278 cccaac 281 <210> SEQ ID NO: 19 282 <211> LENGTH: 155 283 <212> TYPE: DNA C--> 284 <213> ORGANISM: Artificial 286 <220> FEATURE: 287 <223> OTHER INFORMATION: Nucleotide sequence of the Vtg-EGFP (Vtg derived from Oreochromis aureus - EGFP derived from Aequoria victoria) fusion in the vector 288 289 pVtgEGFP 291 <400> SEQUENCE: 19 292 gctagcgcta ccggactcag atcaattcac atccaccagc catgagggtg cttgtactag 60 293 ctcttgctgt ggctctcgca gtgggggacc agtccaactt ggggggatcca ccggtcgcca 120 155 294 ccatggtgag caagggcgtg gtgcagaact ccggg 297 <210> SEQ ID NO: 20 298 <211> LENGTH: 38 299 <212> TYPE: PRT C--> 300 <213> ORGANISM: Artificial 302 <220> FEATURE: 303 <223> OTHER INFORMATION: Amino acid sequence of the Vtg-EGFP (Vtg derived from Oreochromis aureus - EGFP derived from Aequoria victoria) fusion in the vector 304 305 pVtgEGFP 307 <400> SEQUENCE: 20 309 Met Arg Val Leu Val Leu Ala Leu Ala Val Ala Leu Ala Val Gly Asp 10 15 5 . 311 Gln Ser Asn Leu Gly Asp Pro Pro Val Ala Thr Met Val Ser Lys Gly 25 20 312 313 Val Val Gln Asn Ser Gly 35 314 317 <210> SEQ ID NO: 21 318 <211> LENGTH: 204 319 <212> TYPE: DNA C--> 320 <213> ORGANISM: Artificial 322 <220> FEATURE: 323 <223> OTHER INFORMATION: Nucleotide sequence at the junction of Vtgss (derived from Oreochromis aureus) and B-lactamase (derived from bacteria) in pBADVtgblactKana 326 <400> SEQUENCE: 21 327 ctctactgtt tctccatacc cgtttttttg ggctaacagg aggaattaac catgagggtg 328 cttgtactag ctcttgctgt ggctctcgca gtgggggacc agtccaactt gggggatcca 120 329 gaaacgctgg tgaaagtaaa agatgctgaa gatcagttgg gtgcacgagt gggttacatc 180 204 330 gaactggatc tcaacagcqq taaq 333 <210> SEQ ID NO: 22 334 <211> LENGTH: 51

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